



IFW

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Thomas B. Stanford, et al. ) Re: Information Disclosure  
Serial No.: 10/680,937 ) Statement  
Filed: October 7, 2003 ) Group: 2856  
For: "SENSOR FOR DETECTION OF ENZYME ) Examiner: not yet assigned  
AND ENZYME DETECTION METHOD..." ) Our Ref: B-4588NP 620930-1  
Date: July 22, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria VA, 22313-1450

Sir:

In accordance with the Applicants' duty to disclose information which may be material to the examination of this application, the undersigned respectfully requests that the Examiner consider on the merits the documents listed on the enclosed Form PTO-1449 (modified) before issuing the first Office Action on the merits.

Copies of the foreign patent documents and the non-patent publications listed on the enclosed Form PTO-1449 (modified) are enclosed herewith for the Examiner's convenience. Copies of the U.S. patent documents listed on the enclosed Form PTO-1449 (modified) are not enclosed, pursuant to Deputy Commissioner Stephen G. Kunin's Pre OG Notice dated July 11, 2003, with the exception of U.S. Patent Application No. 08/876,992 because this U.S. application has not been published.

It should be noted that the above-identified application may be related by subject matter to the following U.S. Patent Application(s): 08/876,992, filed June 16, 1997; 09/679,428, filed on October 3, 2000 (now U.S. Patent No. 6,730,212 B1); and 10/230,947, filed August 29, 2002 (published as U.S. Patent Application Publication No. 2003/0062263 A1). Pursuant to 37 C.F.R. § 1.56(a) and M.P.E.P. § 2004, paragraph 9, the applicant brings these co-pending applications to the attention of the Examiner. The Examiner should consider this information during the prosecution of the above-identified application. However, citation of these applications does not constitute an admission that the claims of the present application are substantially similar or similar to

Information Disclosure Statement  
USSN 10/680,937  
July 22, 2004  
Page 2

those of the applications listed above.

The documents listed on the enclosed Form PTO-1449 (modified) include those that are cited in a PCT International Search Report for PCT Application No. PCT/US01/28717, which corresponds to the above-mentioned U.S. Application No. 09/679,428. Please note that PCT Application No. PCT/US01/28717 involves subject matter that is arguably similar to the subject matter of the above-identified U.S. Application No. 10/680,937. A copy of the PCT International Search Report (4 pages) for PCT Application No. PCT/US01/28717 is enclosed herewith.

The documents listed on the enclosed Form PTO-1449 (modified) also include those that are cited in a PCT International Search Report for PCT Application No. PCT/US02/27676, which corresponds to the above-mentioned U.S. Application No. 10/230,947. Please note that PCT Application No. PCT/US02/27676 involves subject matter that is arguably similar to the subject matter of the above-identified U.S. Application No. 10/680,937. A copy of the PCT International Search Report (4 pages) for PCT Application No. PCT/US02/27676 is enclosed herewith.

Japanese Patent Document No. 05-296960 is not in English. A concise English-language explanation of the relevance of Japanese Patent Document No. 05-296960 can be found in the partial English-language translation that is attached to Japanese Patent Document No. 05-296960. A concise English-language explanation of the relevance of Japanese Patent Document No. 05-296960 can also be found in the enclosed one-page English-language abstract that is attached to Japanese Patent Document No. 05-296960.

Japanese Patent Document No. 03-089156 is not in English. A concise English-language explanation of the relevance of Japanese Patent Document No. 03-089156 can be found in the partial English-language translation that is attached to Japanese Patent Document No. 03-089156. A concise English-language explanation of the relevance of Japanese Patent Document No. 03-089156 can

Information Disclosure Statement

USSN 10/680,937

July 22, 2004

Page 3

also be found in the enclosed two-page English-language abstract that is attached to Japanese Patent Document No 03-089156.

Japanese Patent Document No. 63-215960 is not in English. A concise English-language explanation of the relevance of Japanese Patent Document No. 63-215960 can be found in the partial English-language translation that is attached to Japanese Patent Document No. 63-215960. A concise English-language explanation of the relevance of Japanese Patent Document No. 63-215960 can also be found in the enclosed one-page English-language abstract that is attached to Japanese Patent Document No 63-215960.

Japanese Patent Document No. 58-176538 is not in English. A concise English-language explanation of the relevance of Japanese Patent Document No. 58-176538 can be found in the enclosed one-page English-language abstract that is attached to Japanese Patent Document No 58-176538. A concise English-language explanation of the relevance of this Japanese-language Patent Document is also set forth below:

Japanese Patent Document No. 58-176538 relates to conductive polymer gas sensors having interdigitated electrodes.

The document "Caractérisation de dépôts adhérents de polypyrrole sur substrats de verre," by F. Faverolle et al., listed on the enclosed form PTO-1449 (modified), is not in the English language. A concise English-language explanation of the relevance of this foreign-language document is set forth below:

"Caractérisation de dépôts adhérents de polypyrrole sur substrats de verre," relates to conductive polymer gas sensors having interdigitated electrodes.

Information Disclosure Statement  
USSN 10/680,937  
July 22, 2004  
Page 4

The document *Shinsozai* by N. Oyama et al., listed on the enclosed form PTO-1449 (modified), is not in the English language. A concise English-language explanation of the relevance of this foreign-language document is set forth below:

*Shinsozai* relates to conductive polymer gas sensors having interdigitated electrodes.

The filing of this Information Disclosure Statement (IDS) shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The Applicants believe that this IDS is being submitted before the issuance of a first Office Action on the merits and before the issuance of a Final Rejection or Notice of Allowance. Therefore, no official fees should be due; and this IDS should be considered on the merits. If this IDS is being submitted after the issuance of the first Office Action on the merits and before the issuance of a Final Rejection or Notice of Allowance, then the Commissioner is authorized to charge Deposit Account No. 12-0415 \$180.00 (or any other required amount), which is the fee set forth in 37 C.F.R. § 1.97(c); and this IDS should be fully considered on the merits, in accordance with 37 C.F.R. § 1.97(d). If this IDS is being submitted after the issuance of a Final Rejection or Notice of Allowance, then the Commissioner is not authorized to charge \$180.00 to Deposit Account No. 12-0415.

The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. (Notice of January 9, 1992, 1135 O.G. 13-25, at 25.)

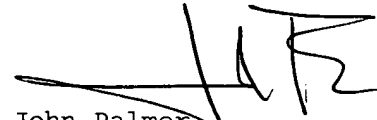
Information Disclosure Statement  
USSN 10/680,937  
July 22, 2004  
Page 5

The person making this statement is the practitioner who signs below on the basis of information supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)) and on the basis of information in the practitioner's file.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to the "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450", on July 22, 2004 by Shana Morda.

---

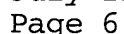
Respectfully submitted,



John Palmer  
Attorney for Applicant  
Reg. No. 36,885

LADAS & PARRY  
5670 Wilshire Boulevard  
Suite 2100  
Los Angeles, CA 90036  
(323) 934-2300

Enclosures: Form PTO-1449 (modified) (10 pages)  
Copy of Non-U.S. Patent documents listed on Form PTO-1449  
(modified), with the exception of U.S. Patent Application No.  
08/876,992



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE or 102(e) DATE IF APPROPRIATE
	USSN: 08/876,992		Stanford et al.			6/16/1997
	2003/0062263 A1	4/3/2003	Stanford et al.	204	403.01	8/29/2002
	6,730,212 B1	5/4/2004	Yamagishi et al.	205	777.5	10/3/2000
	5,928,609	7/27/1999	Gibson et al.	422	90	9/06/1995
	5,922,537	7/13/1999	Ewart et al.	435	6	11/08/1996
	5,766,934	6/16/1998	Guisseppi-Elie	435	287.9	10/04/1994
	5,756,879	5/26/1998	Yamagishi et al.	73	28.01	7/25/1996
	5,698,083	12/16/1997	Glass	204	403	8/18/1995
	5,625,139	4/29/1997	Stormbom	73	23.21	10/18/1995
	5,624,605	4/29/1997	Cao et al.	252	500	6/7/1995
	5,607,573	3/4/1997	Miller et al.	205	782.5	3/27/1995
	5,571,401	11/5/1996	Lewis et al.	205	787	2/23/1995
	5,540,862	7/30/1996	Cao et al.	252	500	3/18/1994
	5,536,473	7/16/1996	Monkman et al.	422	90	1/13/1994
	5,520,852	5/28/1996	Ikkala et al.	252	521	6/8/1994
	5,491,097	2/13/1996	Ribi et al.	436	518	2/28/1994
	5,417,100	5/23/1995	Miller et al.	73	31.02	3/10/1993
	5,407,699	4/18/1995	Myers	427	121	7/5/1988
	5,372,785	12/13/1994	Johnson et al.	422	90	9/1/1993

<u>EXAMINER</u>	<u>DATE CONSIDERED</u>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement  
 USSN 10/680,937  
 July 22, 2004  
 Page 7

<b>Form PTO-1449 (Modified)</b> Page 2 of 10	<b>ATTY DOCKET NO.</b> B-4588NP 620930-1	<b>U.S. SERIAL NO.</b> 10/680,937
<b>LIST OF PATENTS AND PUBLICATIONS STATEMENT</b>	<b>APPLICANTS</b> Thomas B. Stanford, et al.	
	<b>FILING DATE</b> October 7, 2003	<b>GROUP</b> 2856

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE or 102(e) DATE IF APPROPRIATE
	5,337,018	8/9/1994	Yamagishi	324	693	11/13/1992
	5,331,287	7/19/1994	Yamagishi et al.	324	724	7/31/1992
	5,312,762	5/17/1994	Guisseppi-Elie	436	149	9/13/1991
	5,234,566	8/10/1993	Osman et al.	204	403	8/17/1989
	5,208,301	5/4/1993	Epstein et al.	525	540	5/25/1990
	5,122,237	6/16/1992	Kim et al.	205	107	1/22/1991
	5,086,286	2/4/1992	Yasukawa et al.	338	34	7/26/1990
	5,018,380	5/28/1991	Zupancic et al.	73	23.2	2/6/1989
	4,977,658	12/18/1990	Awano et al.	29	25.01	10/31/1988
	4,907,441	3/13/1990	Shurmer	73	23	8/26/1988
	4,822,465	4/18/1989	Jones et al.	204	192.1	6/30/1987
	4,721,601	1/26/1988	Wrighton et al.	422	68	11/23/1984
	4,699,804	10/13/1987	Miyata et al.	437	176	12/17/1985
	4,674,320	6/23/1987	Hirschfeld	73	23	9/30/1985
	4,624,756	11/25/1986	Matsuda et al.	204	59 R	2/21/1986
	4,457,161	7/3/1984	Iwanaga et al.	73	23	4/7/1981
	4,444,892	4/24/1984	Malmros	436	528	5/17/1982
	4,334,880	6/15/1982	Malmros	23	230B	10/20/1980
	4,019,367	4/26/1977	Norsworthy	73	23	9/11/1975

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement  
 USSN 10/680,937  
 July 22, 2004  
 Page 8

<b>Form PTO-1449 (Modified)</b> Page 3 of 10	<b>ATTY DOCKET NO.</b> B-4588NP 620930-1	<b>U.S. SERIAL NO.</b> 10/680,937
<b>LIST OF PATENTS AND PUBLICATIONS STATEMENT</b>	<b>APPLICANTS</b> Thomas B. Stanford, et al.	
	<b>FILING DATE</b> October 7, 2003	<b>GROUP</b> 2856

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
	0 596 973 B1	12/27/1995	EP			
	05-296960 (with 1-page English-language abstract)	11/12/1993	JP			yes (partial)
	03-089156 (with 2-page English-language abstract)	4/15/1991	JP			yes (partial)
	63-215960 (with 1-page English-language abstract)	9/8/1988	JP			yes (partial)
	58-176538 (with 1-page English-language abstract)	10/17/1983	JP			
	2 237 291	5/1/1991	UK			
	2 225 008	5/23/1990	UK			

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Information Disclosure Statement  
 USSN 10/680,937  
 July 22, 2004  
 Page 9

Form PTO-1449 (Modified) Page 4 of 10	ATTY DOCKET NO. B-4588NP 620930-1	U.S. SERIAL NO. 10/680,937
LIST OF PATENTS AND PUBLICATIONS STATEMENT	APPLICANTS Thomas B. Stanford, et al.	
	FILING DATE October 7, 2003	GROUP 2856

**WORLD INTELLECTUAL PROPERTY ORGANIZATION DOCUMENTS**

Examiner Initial	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	PCT INTERNATIONAL FILING DATE	TRANSLATION YES/NO
	03/081223 A2	10/02/2003	WO	08/29/2002	
	02/29378	4/11/2002	WO	9/10/2001	
	88/09808	12/15/1988	WO	06/01/1988	
	98/19153	5/7/1998	WO	10/22/1997	
3	97/04464	2/6/1997	WO	7/19/1996	
	95/32422	11/30/1995	WO	5/23/1995	

<u>EXAMINER</u>	<u>DATE CONSIDERED</u>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement  
 USSN 10/680,937  
 July 22, 2004  
 Page 10

<b>Form PTO-1449 (Modified)</b> Page 5 of 10	<b>ATTY DOCKET NO.</b> B-4588NP 620930-1	<b>U.S. SERIAL NO.</b> 10/680,937
<b>LIST OF PATENTS AND PUBLICATIONS STATEMENT</b>	<b>APPLICANTS</b> Thomas B. Stanford, et al.	
	<b>FILING DATE</b> October 7, 2003	<b>GROUP</b> 2856

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	PCT International Search Report (mailing date: October 23, 2002) for PCT Application No. PCT/US01/28717 (4 pages).
	PCT International Search Report (mailing date: November 3, 2003) for PCT Application No. PCT/US02/27676 (4 pages).
	Akkara, J., et al., "Synthesis of Two-Dimensional Electrooptic Polymer Networks Through Biocatalysis," <i>Polymer Preprints</i> , Vol. 34, No. 2, pp 759-760 (August 1993).
	Araujo, Y.C., et al., "Structure of Silane Films and Their Adhesion Properties," <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 407, pp 325-330 (1996).
	Arkles, B., "Silane Coupling Agent Chemistry," <i>Silicon Compounds: Register and Review</i> , 5th Ed., pp 59-64 (1991).
	Bartlett, P., et al., "Conducting Polymer Gas Sensors, Part I: Fabrication and Characterization," <i>Sensors and Actuators</i> , Vol. 19, pp 125-140 (1989).
	Bartlett, P., et al., "Conducting Polymer Gas Sensors, Part III: Results for Four Different Polymers and Five Different Vapours," <i>Sensors and Actuators</i> , Vol. 20, pp 287-292 (1989).
	Brumlik, C.J., et al., "Template Synthesis of Metal Microtubules," <i>J. Am. Chem. Soc.</i> , Vol. 113, pp 3174-3175 (1991).
	Buehler, M.G., et al., "Gas Sensor Test Chip," <i>Proceedings of the 1996 IEEE International Conference on Microelectronic Test Structures</i> , Vol. 9, pp 105-110 (March 1996).
	Charlesworth, J.M., et al., "Mechanistic Studies on the Interactions Between Poly(pyrrole) and Organic Vapors," <i>J. Phys. Chem.</i> , Vol. 97, pp 5418-5423 (1993).
	Cui, C.X., et al., "Two helical conformations of polythiophene, polypyrrole, and their derivatives," <i>The Americal Physical Society, Physical Review B</i> , Vol. 40, No. 14, pp 9661-9670 (November 15, 1989).
	Cullen, D.C., et al., "Multi-analyte miniature conductance biosensor," <i>Analytica Chimica Acta</i> , Vol. 231, pp 33-40 (1990).

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement

USSN 10/680,937

July 22, 2004

Page 11

Form PTO-1449 (Modified) Page 6 of 10	ATTY DOCKET NO. B-4588NP 620930-1	U.S. SERIAL NO. 10/680,937
LIST OF PATENTS AND PUBLICATIONS STATEMENT	APPLICANTS Thomas B. Stanford, et al.	
	FILING DATE October 7, 2003	GROUP 2856

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Dave, B.C., et al., "Sol-gel Encapsulation Methods for Biosensors," <i>Analytical Chemistry</i> , Vol. 66, No. 22, pp 1120A-1127A (November 15, 1994).
	Dong, S., et al., "A New Kind of Chemical Sensor Based on a Conducting Polymer Film," <i>J. Chem. Soc., Chem. Commun.</i> , pp 993-995 (1998).
	Dong, S., et al., "Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer," <i>Analyst</i> , Vol. 113, pp 1525-1528 (October 1988).
	Evans, P., et al., "Synthesis and gas sensing properties of poly[tetra(pyrrol-1-yl)silane]," <i>J. Mater. Chem.</i> , Vol. 6, No. 3, pp 295-299 (1996).
	Faverolle, F., et al., "Caractérisation de dépôts adhérents de polypyrrole sur substrats de verre," <i>J. Chim. Phys.</i> , Vol. 92, pp 943-946 (1995).
	Feng, J., et al., "Conformation of polyaniline: effect of mechanical shaking and spin casting," <i>Synthetic Metals</i> , Vol. 84, pp 131-132 (1997).
	Foulds, N.C., et al., "Enzyme Entrapment in Electrically Conducting Polymers," <i>J. Chem. Soc., Faraday Trans. 1</i> , Vol. 82, pp 1259-1264 (1986).
	Fox, M.A., et al., "Covalent Attachment of Arenes to SnO <sub>2</sub> -Semiconductor Electrodes," <i>Journal of the American Chemical Society</i> , Vol. 102, No. 12, pp 4029-4036 (June 4, 1980).
	Gholamian, M., et al., "Oxidation of Formic Acid at Polyaniline-Coated and Modified-Polyaniline-Coated Electrodes," <i>Langmuir</i> , Vol. 3, pp 741-744 (1987).
	Gorton, L., et al., "Amperometric glucose sensors based on immobilized glucose-oxidizing enzymes and chemically modified electrodes," <i>Analytica Chimica Acta</i> , Vol. 249, pp 43-54 (1991).
	Guisseppi-Elie, A., et al., Proceedings 64th Colloid. and Surf Sci. Symp., June 18-20, 1990, Lehigh Univ., Lehigh

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement  
 USSN 10/680,937  
 July 22, 2004  
 Page 12

<b>Form PTO-1449 (Modified)</b> Page 7 of 10	<b>ATTY DOCKET NO.</b> B-4588NP 620930-1	<b>U.S. SERIAL NO.</b> 10/680,937
<b>LIST OF PATENTS AND PUBLICATIONS STATEMENT</b>	<b>APPLICANTS</b> Thomas B. Stanford, et al.	
	<b>FILING DATE</b> October 7, 2003	<b>GROUP</b> 2856

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Habib, M.A., et al., "Silanized Polyaniline as an Electrochromic Material," <i>J. Electrochem. Soc.</i> , Vol. 138, No. 6, pp 1692-1695 (June 1991).
	Hoa, D.T., et al., "Biosensor Based on Conducting Polymers," <i>Anal. Chem.</i> , Vol. 64, pp 2645-2646 (1992).
	Hwang, L.S., et al., "A Polymer Humidity Sensor," <i>Synthetic Metals</i> , Vol. 55, No. 57, pp 3671-3676 (1993).
	Imisides, M.D., et al., "Microsensors based on conducting polymers," <i>Chemtech</i> , pp 19-25 (May 1996).
	Iwakura, C., et al., "Simultaneous Immobilization of Glucose Oxidase and a Mediator in Conducting Polymer Films," <i>J. Chem. Soc., Chem. Commun.</i> , pp 1019-1020 (1998).
	Kajiya, Y., et al., "Glucose Sensitivity of Polypyrrole Films Containing Immobilized Glucose Oxidase and Hydroquinonesulfonate Ions," <i>Anal. Chem.</i> , Vol. 63, pp 49-54 (1991).
	Karagözler, A.E., et al., "Potentiometric iodide ion sensor based on a conducting poly(3-methylthiophene) polymer film electrode," <i>Analytica Chimica Acta</i> , Vol. 248, pp 163-172 (1991).
	Krutovertsev, S.A., et al., "Polymer film-based sensors for ammonia detection," <i>Sensors and Actuators B</i> , Vol. 7, pp 492-494 (1992).
	Kupila, E.-L., et al., "The effect of silanization and poly(ethylene oxide) on the electropolymerization of pyrrole," <i>Synthetic Metals</i> , Vol. 62, pp 55-59 (1994).
	Kuwabata, S., et al., "Investigation of the gas-transport properties of polyaniline," <i>Journal of Membrane Science</i> , Vol. 91, pp 1-12 (1994).
	Lawrence, A.J., et al., "Conductimetry in Enzyme Studies," <i>Eur. J. Biochem.</i> , Vol. 24, pp 538-546 (1972).
	Liang, W., et al., "Gas Transport in Electronically Conductive Polymers," <i>Chem. Mater.</i> , Vol. 3, pp 390-391 (1991).

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement  
 USSN 10/680,937  
 July 22, 2004  
 Page 13

<b>Form PTO-1449 (Modified)</b> Page 8 of 10	<b>ATTY DOCKET NO.</b> B-4588NP 620930-1	<b>U.S. SERIAL NO.</b> 10/680,937
<b>LIST OF PATENTS AND PUBLICATIONS STATEMENT</b>	<b>APPLICANTS</b> Thomas B. Stanford, et al.	
	<b>FILING DATE</b> October 7, 2003	<b>GROUP</b> 2856

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Lu, Z., et al., "Study of $\text{ClO}_4^-$ -Selective Electrode Based on a Conducting Polymer Polypyrrole," <i>Electroanalysis</i> , Vol. 1, pp 271-277 (1989).
	Ma, Y.L., et al., "Potentiometric selective determination of hydrogen sulfide by an electropolymerized membrane electrode based on binaphthyl-20-crown-6," <i>Analytica Chimica Acta</i> , Vol. 289, pp 21-26 (1994).
	MacDiarmid, A.G., et al., "Secondary doping in polyaniline," <i>Synthetic Metals</i> , Vol. 69, pp 85-92 (1995).
	MacDiarmid, A.G., et al., "Thin films of Conjugated Polymers: Application in Sensors for Hydrocarbon Vapors, Microcontact-Printed Liquid Crystal Displays and Light Emitting Devices," <i>Polymer Preprints</i> , Vol. 38, No. 1, pp 333-334 (April 1997).
	Malmros, M.K., et al., "A Semiconductive Polymer Film Sensor for Glucose," <i>Biosensors</i> , Vol. 3, pp 71-87 (1987-1988).
	Matsue, T., et al., "Electron-transfer from NADH dehydrogenase to polypyrrole and its applicability to electrochemical oxidation of NADH," <i>J. Electroanal. Chem.</i> , Vol. 300, pp 111-118 (1991).
	Matsue, T., et al., "An Enzyme Switch Sensitive to NADH," <i>J. Chem. Soc., Chem. Commun.</i> , pp 1029-1031 (1991).
	McGill, R.A., et al., "Surface and Interfacial Properties of Surface Acoustic Wave Gas Sensors," <i>Interfacial Design and Chemical Sensing</i> , pp 280-294 (1994).
	McGovern, M.E., et al., "Role of Solvent on the Silanization of Glass with Octadecyltrichlorosilane," <i>Langmuir</i> , Vol. 10, No. 10, pp 3607-3614 (1994).
	Nishizawa, M., et al., "Electrochemical Preparation of Ultrathin Polypyrrole Film at Microarray Electrodes," <i>J. Phys. Chem.</i> , Vol. 95, pp 9042-9044 (1991).
	Nishizawa, M., et al., "Penicillin Sensor Based on a Microarray Electrode Coated with pH-Responsive Polypyrrole," <i>Anal. Chem.</i> , Vol. 64, pp 2642-2644 (1992).

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement  
 USSN 10/680,937  
 July 22, 2004  
 Page 14

<b>Form PTO-1449 (Modified)</b> Page 9 of 10	<b>ATTY DOCKET NO.</b> B-4588NP 620930-1	<b>U.S. SERIAL NO.</b> 10/680,937
<b>LIST OF PATENTS AND PUBLICATIONS STATEMENT</b>	<b>APPLICANTS</b> Thomas B. Stanford, et al.	
	<b>FILING DATE</b> October 7, 2003	<b>GROUP</b> 2856

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Nishizawa, M., et al., "Surface Pretreatment for Electrochemical Fabrication of Ultrathin Patterned Conducting Polymers," <i>J. Electrochem. Soc.</i> , Vol. 140, No. 6, pp 1650-1655 (1993).
	Nishizawa, M., et al., "Ultrathin polypyrrole formed at a twin-microband electrode in the presence of dodecylsulfate," <i>Journal of Electroanalytical Chemistry</i> , Vol. 371, pp 273-275 (1994).
	Onoda, M., et al., "Physical properties and application of conducting polypyrrole-silica glass composite films prepared by electrochemical polymerization," <i>Synthetic Metals</i> , Vol. 71, pp 2255-2256 (1995).
	Oyama, N., et al., <i>Shinsozai</i> , Vol. 4, pp 56-63 (1993).
	Pandey, P.C., et al., "Acetylthiocholine/acetylcholine and thiocholine/choline electrochemical biosensors/sensors based on an organically modified sol-gel glass enzyme reactor and graphite paste electrode," <i>Sensors and Actuators B</i> , Vol. 62, pp 109-116 (2000).
	Partridge, A.C., et al., "High Sensitivity Conducting Polymer Sensors," <i>Analyst</i> , Vol. 121, pp 1349-1353 (September 1996).
	Paschen, S., et al., "Morphology of a conducting polymer and its relation to the electronic properties," <i>Acta Polymer</i> , Vol. 47, pp 511-519 (1996).
	Paul, E.W., et al., "Resistance of Polyaniline Films as a Function of Electrochemical Potential and the Fabrication of Polyaniline-Based Microelectronic Devices," <i>J. Phys. Chem.</i> , Vol. 89, pp 1441-1447 (1985).
	Plueddemann, E.P., <i>Summary of Excerpts from Silane Coupling Agents</i> , Plenum Press, New York (1982).
	Sun, Z., et al., "Enzyme-Based Bilayer Conducting Polymer Electrodes Consisting of Polymetallophthalocyanines and Polypyrrole-Glucose Oxidase Thin Films," <i>Anal. Chem.</i> , Vol. 64, pp 1112-1117 (1992).
	Temofonte, T.A., et al., "Phthalocyanine semiconductor sensors for room-temperature ppb level detection of toxic gases," <i>Journal of Applied Physics</i> , Vol. 65, No. 3, pp 1350-1355 (February 1, 1989).

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement

USSN 10/680,937

July 22, 2004

Page 15

<b>Form PTO-1449 (Modified)</b> Page 10 of 10	<b>ATTY DOCKET NO.</b> B-4588NP 620930-1	<b>U.S. SERIAL NO.</b> 10/680,937
<b>LIST OF PATENTS AND PUBLICATIONS STATEMENT</b>	<b>APPLICANTS</b> Thomas B. Stanford, et al.	
	<b>FILING DATE</b> October 7, 2003	<b>GROUP</b> 2856

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Umaña, M., et al., "Protein-Modified Electrodes. The Glucose Oxidase-Polypyrrole System," <i>Anal. Chem.</i> , Vol. 58, pp 2979-2983 (1986).
	Verghese, M.M., et al., "Electrochemical Growth of Polyaniline in Porous Sol-Gel Films," <i>Chem. Mater.</i> , Vol. 8, pp 822-824 (1996).
	Wei, Y., et al., "Composites of Electronically Conductive Polyaniline with Polyacrylate-Silica Hybrid Sol-Gel Materials," <i>Chem. Mater.</i> , Vol. 7, pp 969-974 (1995)
	Wrighton, M.S., et al., "Preparation of Chemically Derivatized Platinum and Gold Electrode Surfaces. Synthesis, Characterization, and Surface Attachment of Trichlorosilylferrocene, (1,1'-Ferrocenediyl)dichlorosilane, and 1,1'-Bis(triethoxysilyl)ferrocene," <i>Journal of the American Chemical Society</i> , Vol. 100, No. 23, pp 7264-7271 (November 8, 1978).
	Wu, C.-G., et al., "Chemical Deposition of Ordered Conducting Polyaniline Film via Molecular Self-Assembly," <i>Chemistry of Materials</i> , Vol. 9, No. 2, pp 399-402 (February 1997).
	Yamagishi, F.G., et al., "Conductive Polymer-based Sensors for Application in Nonpolar Media," <i>Polym. Mater. Sci. Eng.</i> , Vol. 71, pp 656-657 (1994).
	Yamagishi, F.G., et al., "Conductive Polymer-based Transducers as vapor-phase detectors," <i>Proc. of the SPE Annual Technical Conference and Exhibits</i> , ANTEC 98, XLIV, pp 1335-1339 (1998).
	Yamagishi, F.G., et al., "Enhanced Stability, Reversibility and Sensitivity of Conductive Polymer-Based Volatile Organic Compound Sensors," <i>Electrochemical Society Proceedings</i> , Vol. 97, No. 19, pp 103-108 (1997).
	Yang, X.Q., et al., "Poly(heterocycle) Langmuir-Blodgett Films," <i>Langmuir</i> , Vol. 5, pp 1288-1292 (1989).

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.